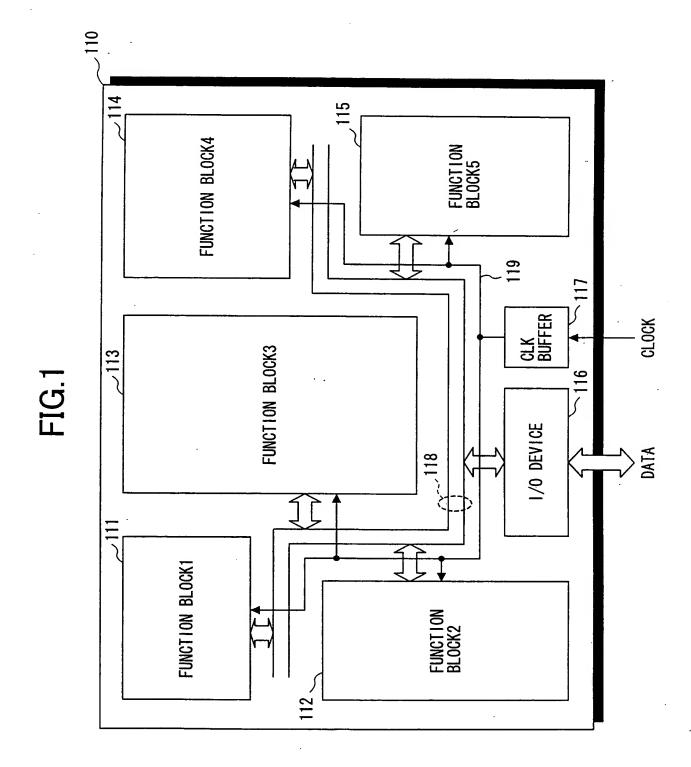
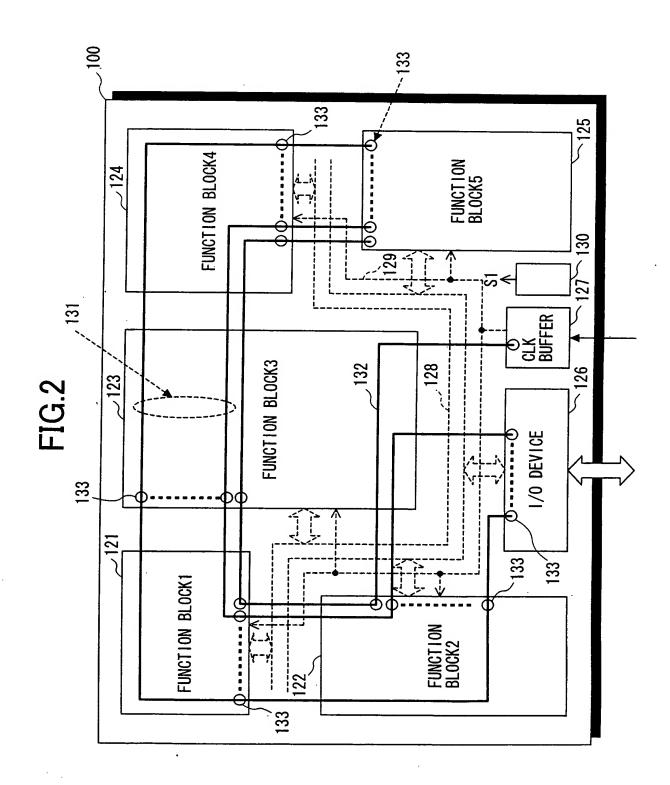
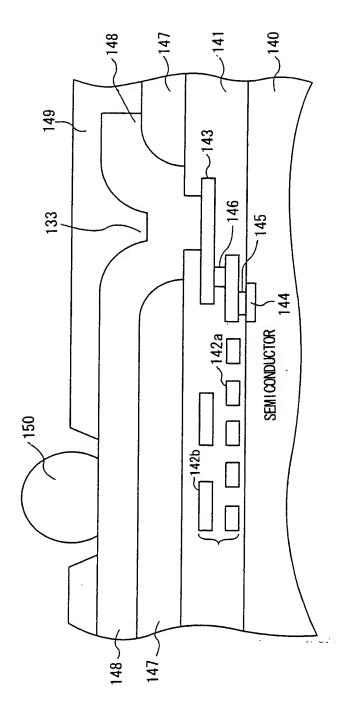
Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION
Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181

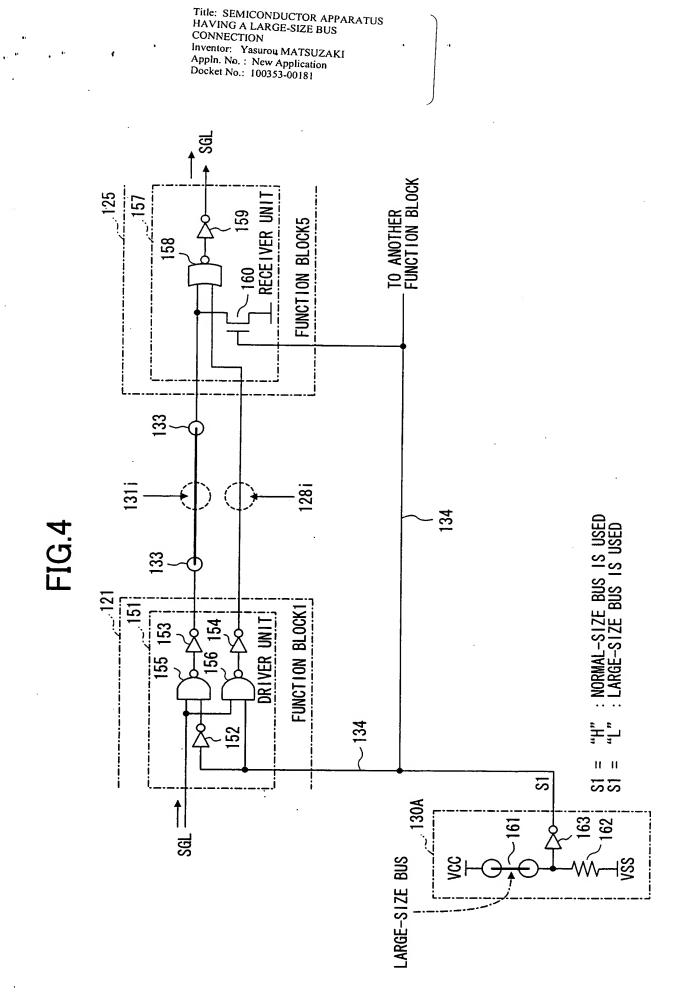


Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION
Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181

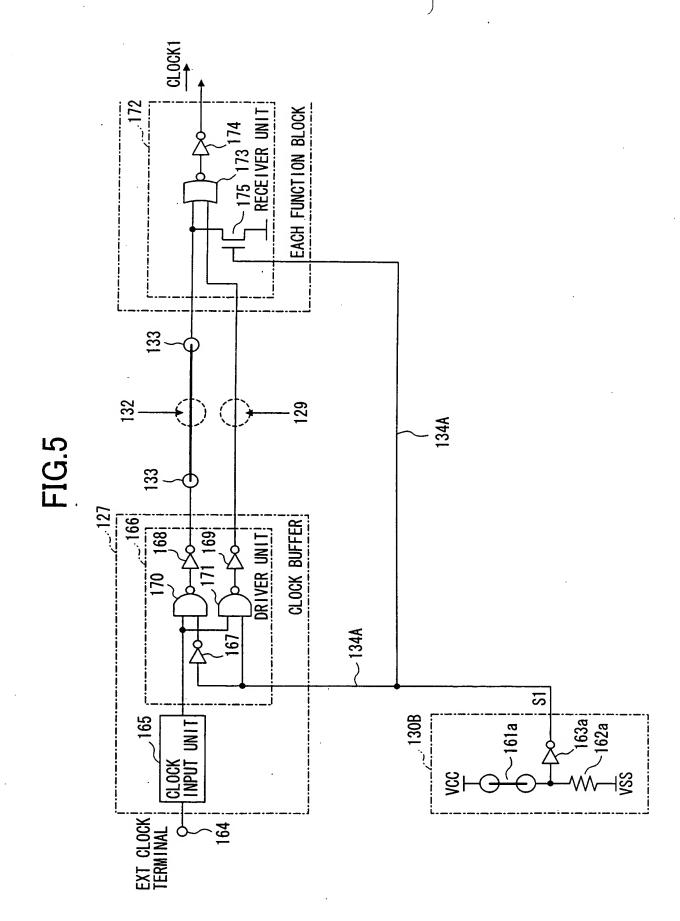


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Inventor: Yasurou MATSUZAKI Appin. No.: New Application Docket No.: 100353-00181

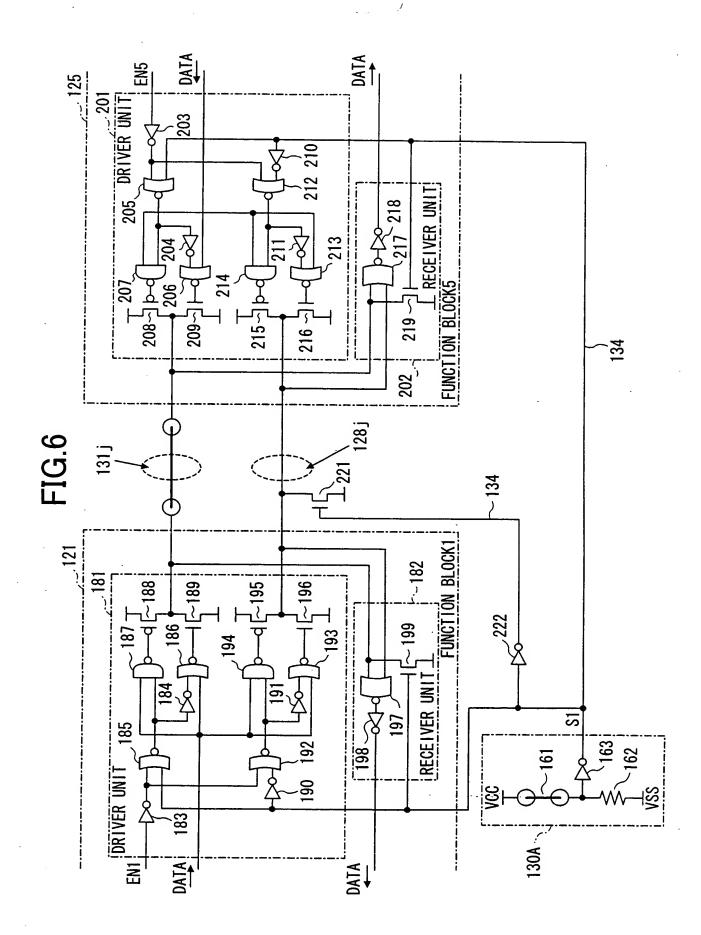




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Inventor: Yasurou MATSUZAKI Appln. No:: New Application Docket No.: 100353-00181



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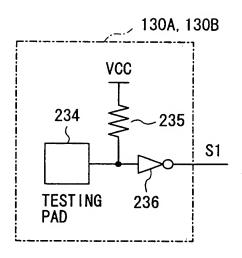
FIG.7A

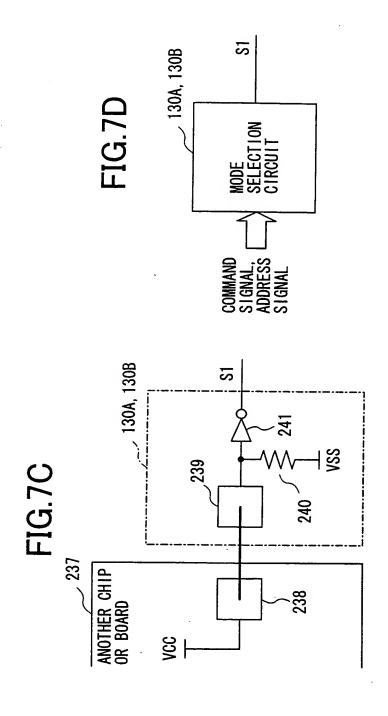
130A, 130B VCC 231 **S1**

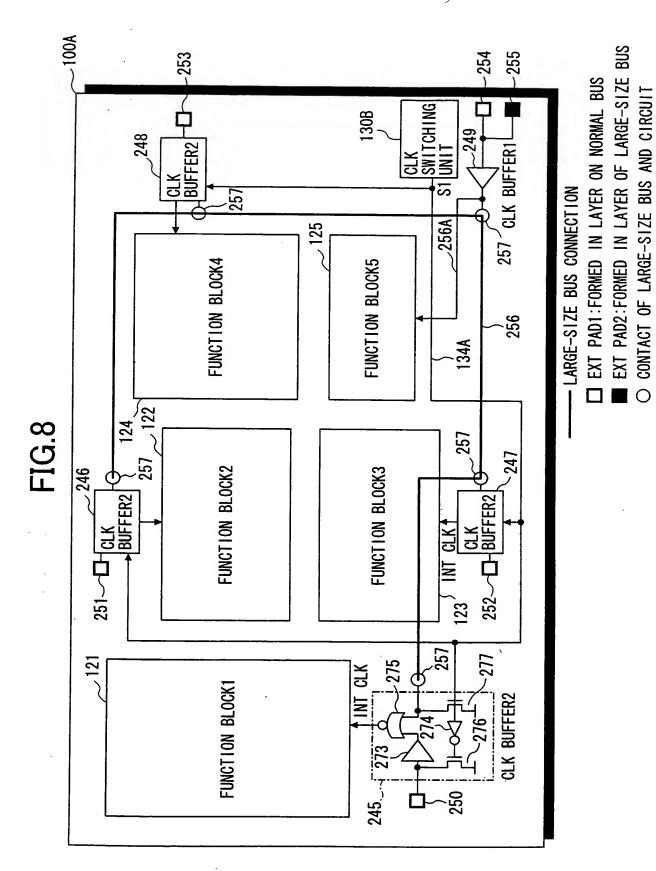
232

233

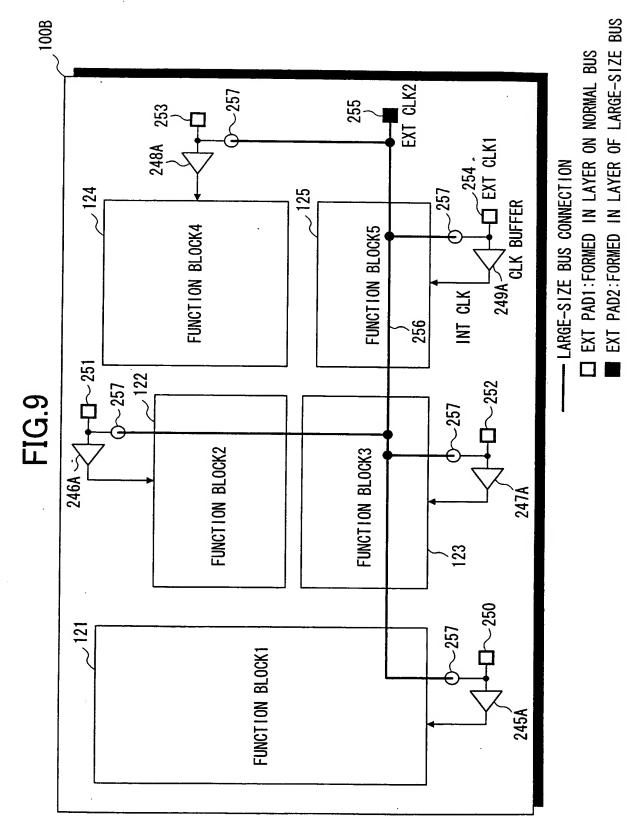
FIG.7B





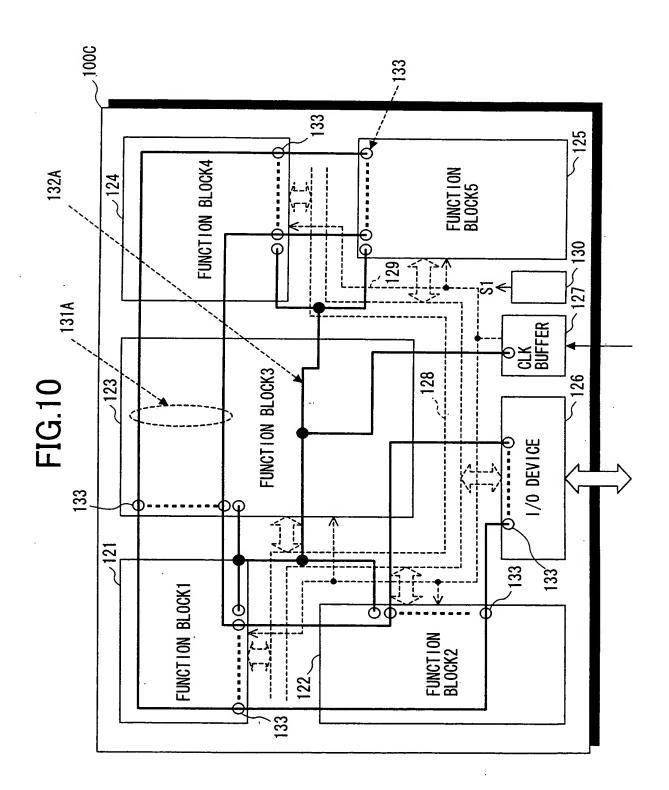


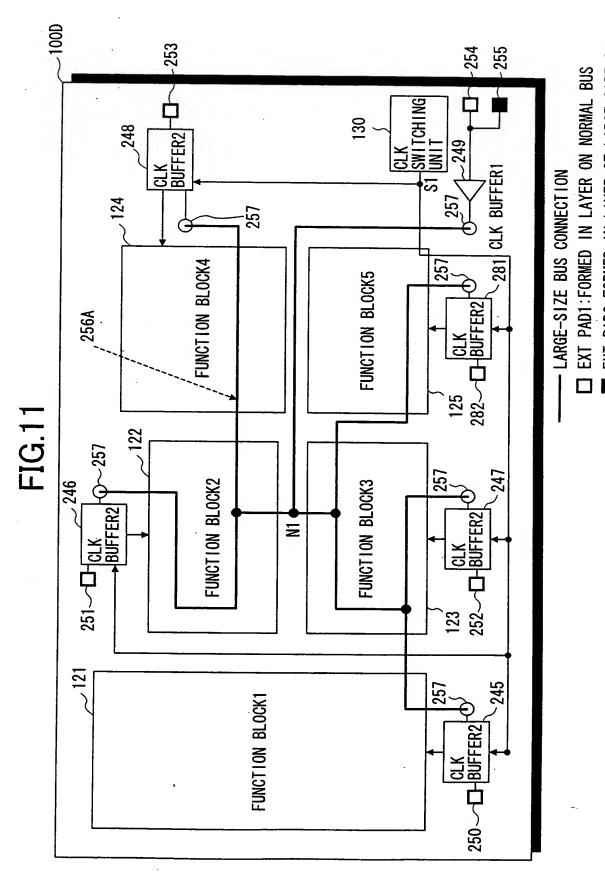
Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181



CONTACT OF LARGE-SIZE BUS AND CIRCUIT

Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION
Inventor: Yasurou, MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181

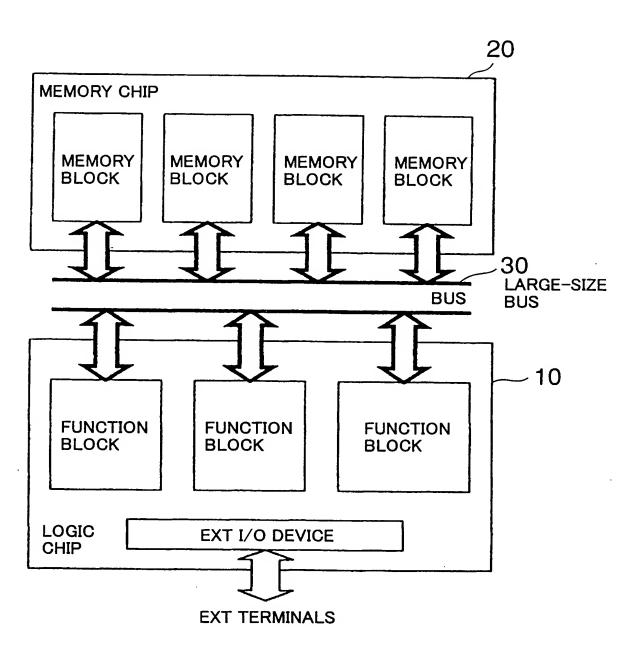


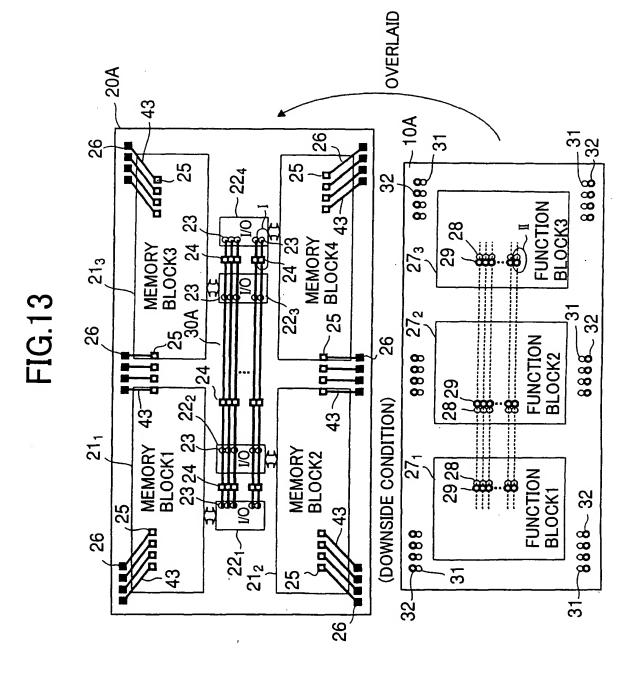


EXT PAD2: FORMED IN LAYER OF LARGE-SIZE BUS ■ EXI PAUZ: FURMED IN LATER UF LARGE—314

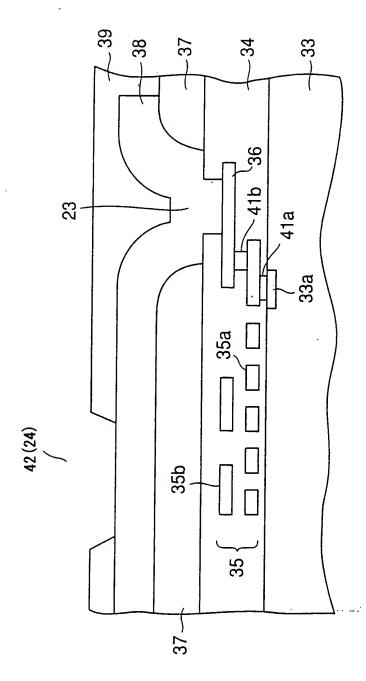
CONNECTION

FIG.12

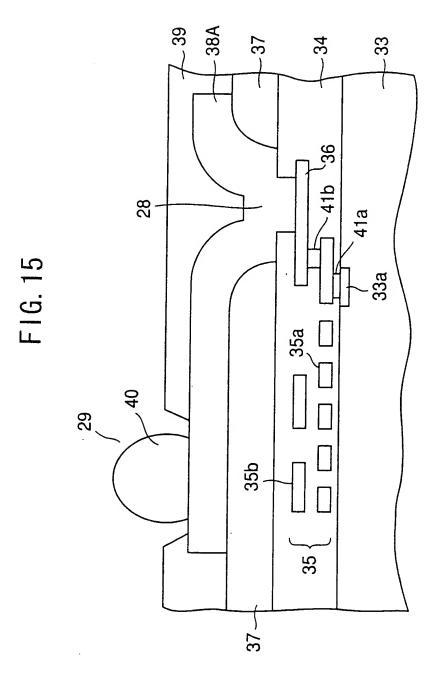




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Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181



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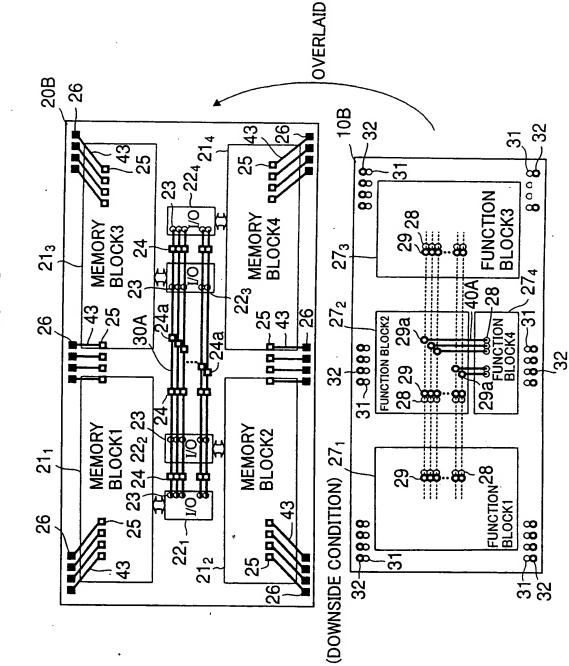
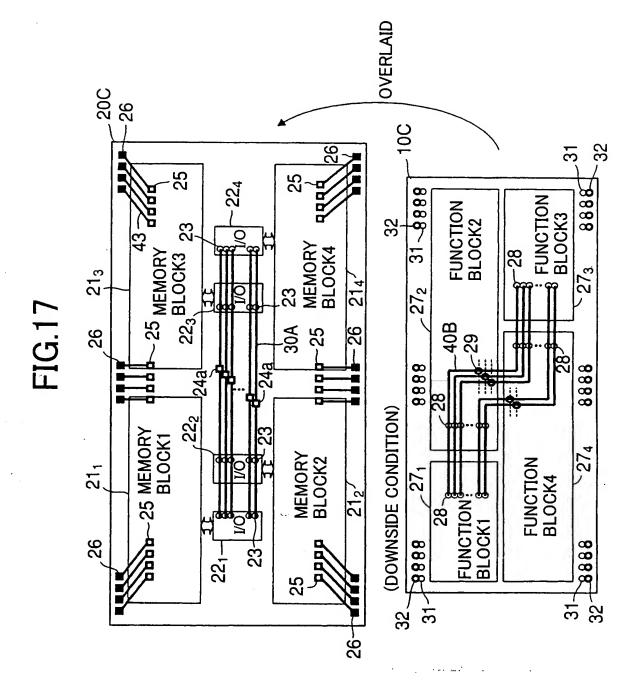
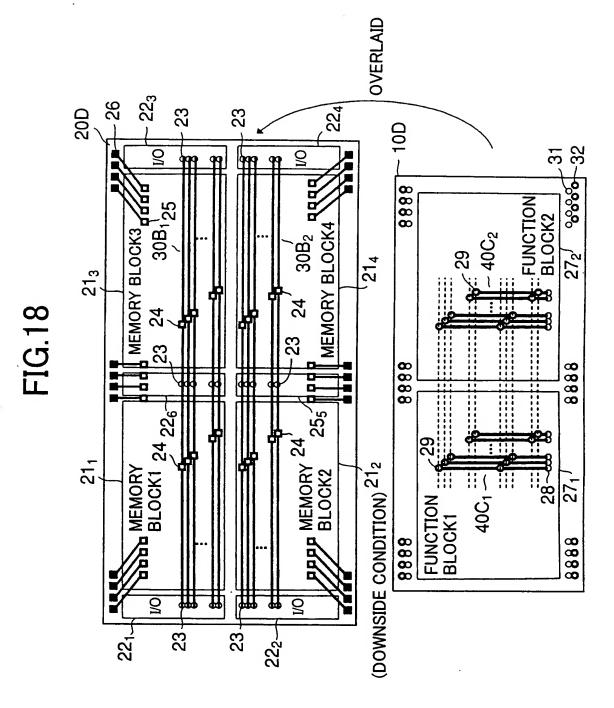


FIG.16

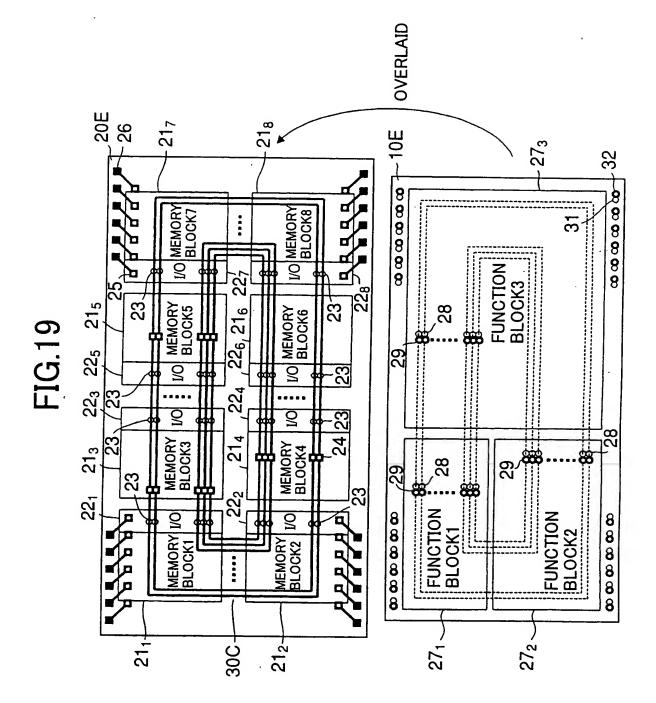
Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS

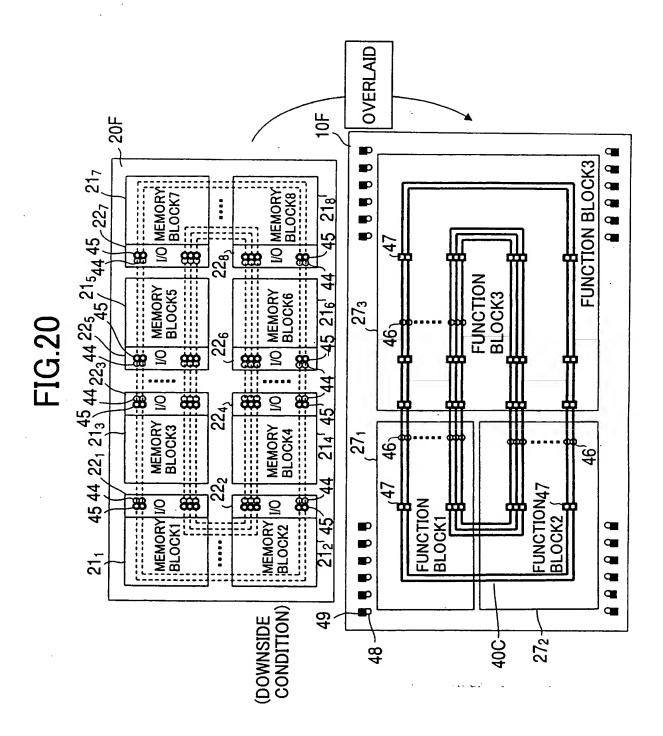


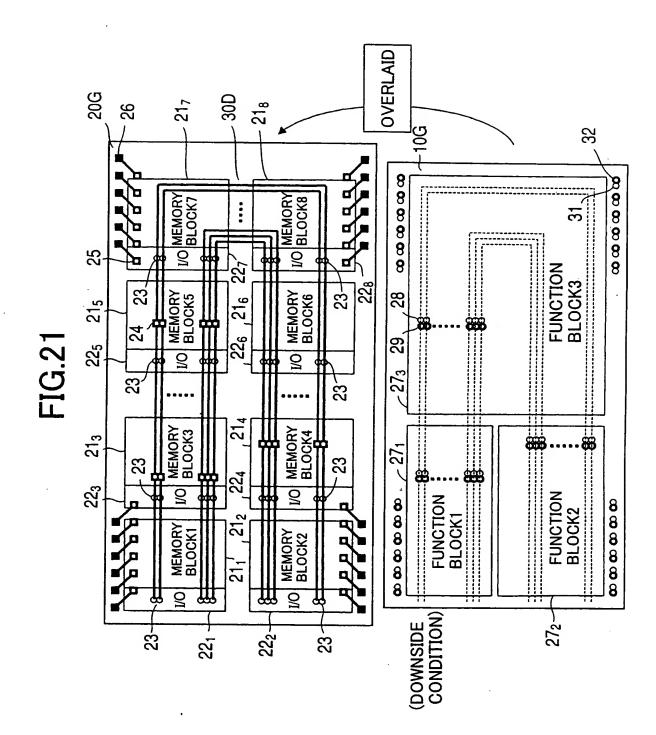
Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION Inventor; Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181



Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181

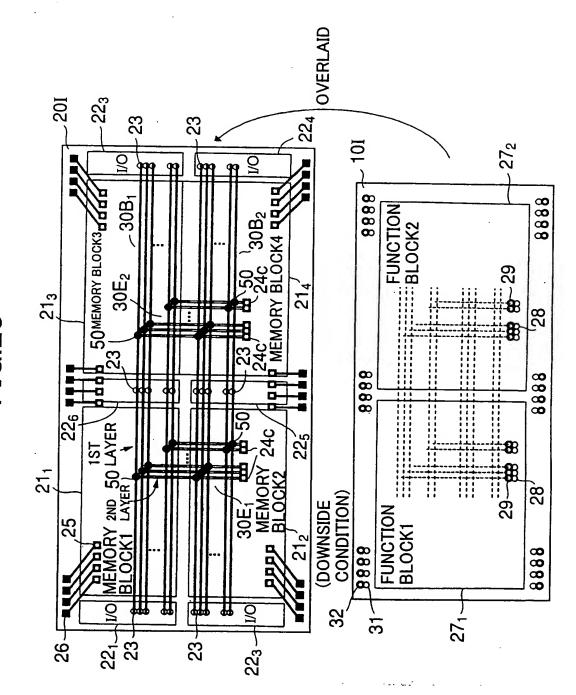




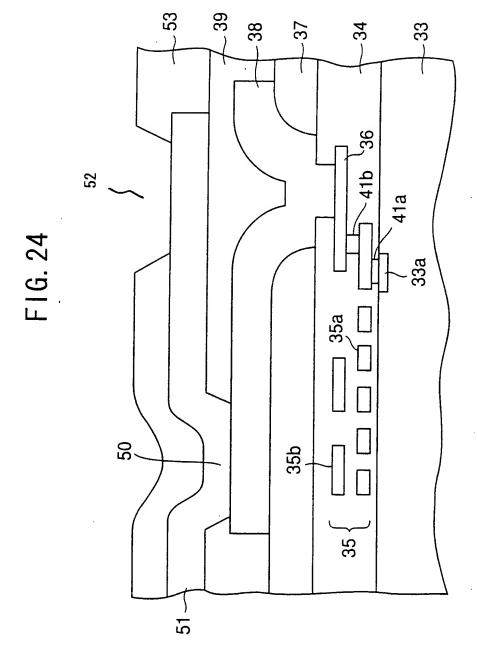


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OVERLAID 30D 218 MEMORY BLOCK7 VO BLOCK8 EMORY 215 MEMORY BLOCK6 MEMORY BLOCK5 ,21₆ FIG.22 22523 213 MEMORY BLOCK3 214 MEMORY BLOCK4 33 223 2 **FUNCTION** 888888 **29**b 88888 I/O MEMORY BLOCK2 MEMORY **BLOCK1** 32 – 29b -23-23



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Inventor: Yasurou MATSUZAKI Appln. No. Y. New Application Docket No.: 100353-00181



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Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181

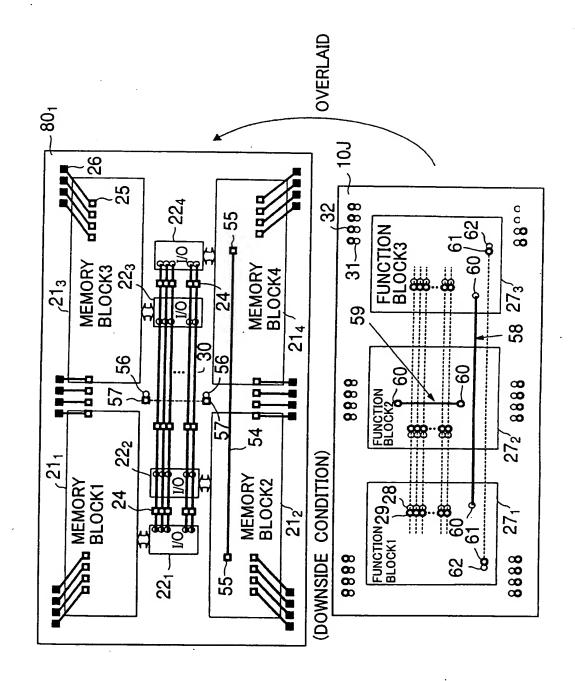
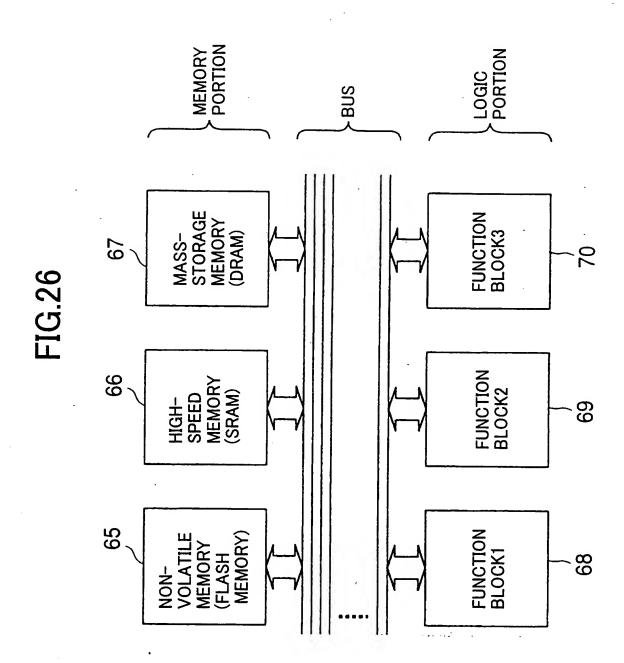
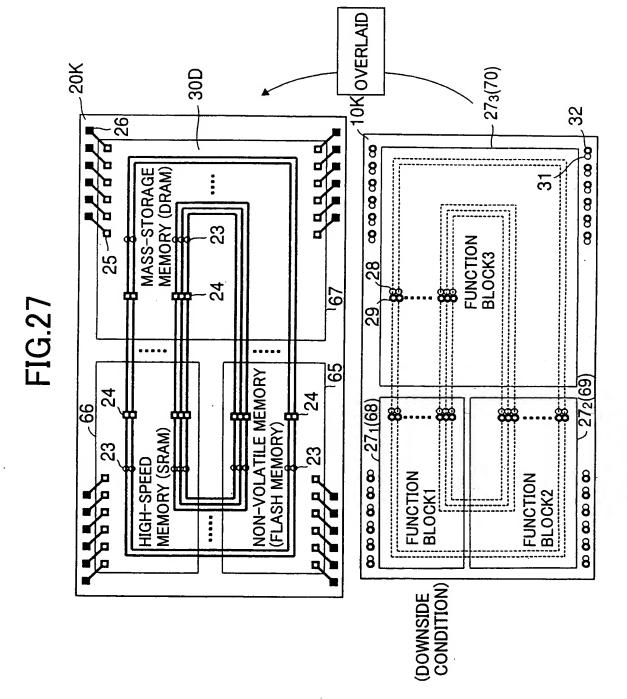


FIG.25

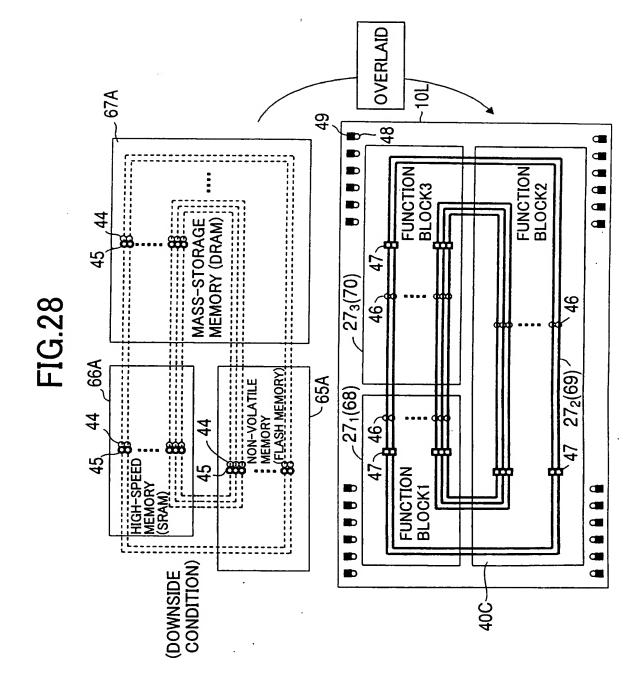
Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION
Inventor: Yasurou MATSUZAKI Appln. 'No.: New Application Docket No.: 100353-00181



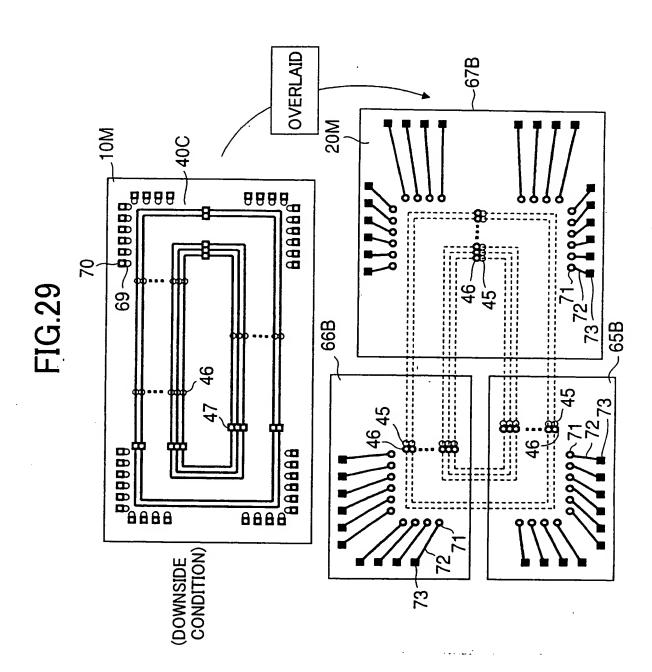
Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181



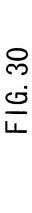
Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181

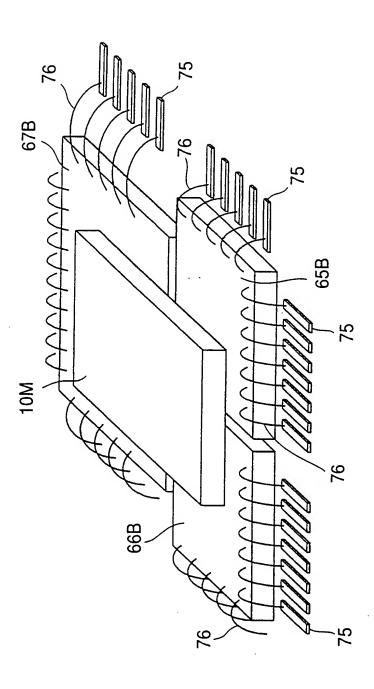


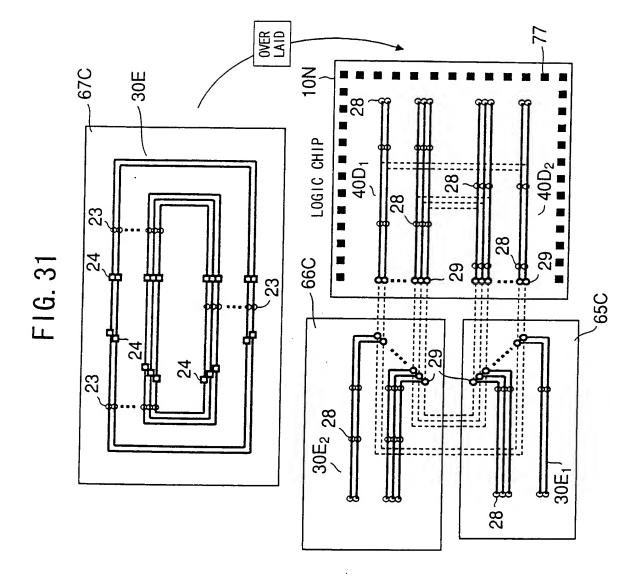
Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION
Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181



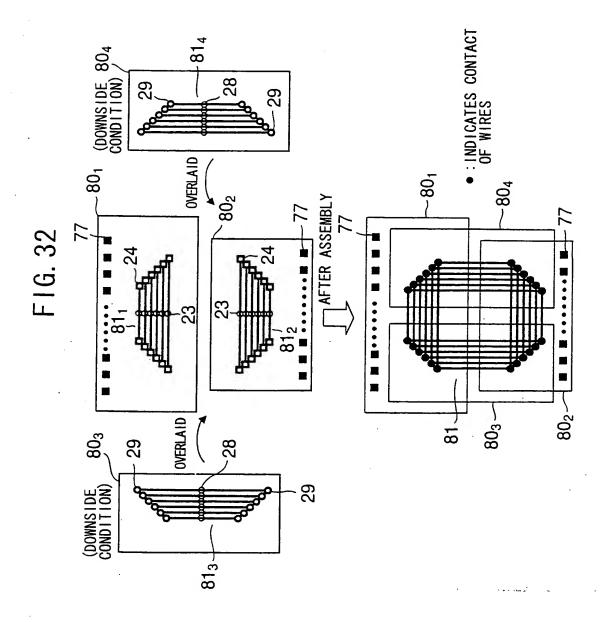
Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket'No.: 100353-00181







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Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION Inventor: 'Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181

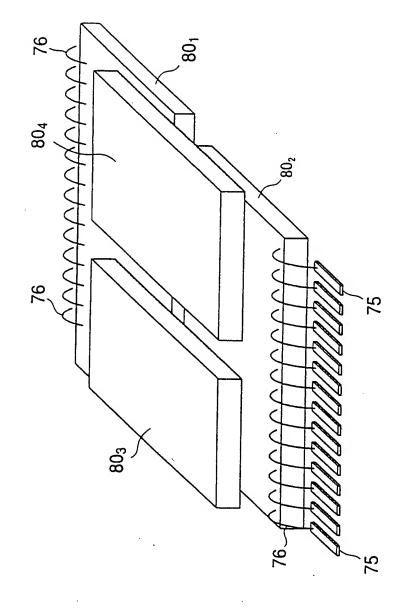
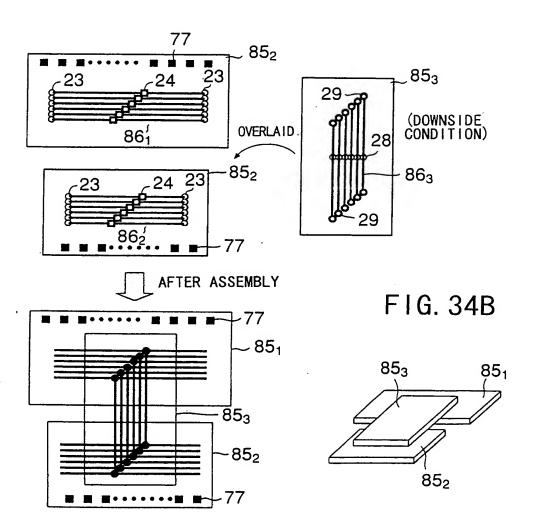
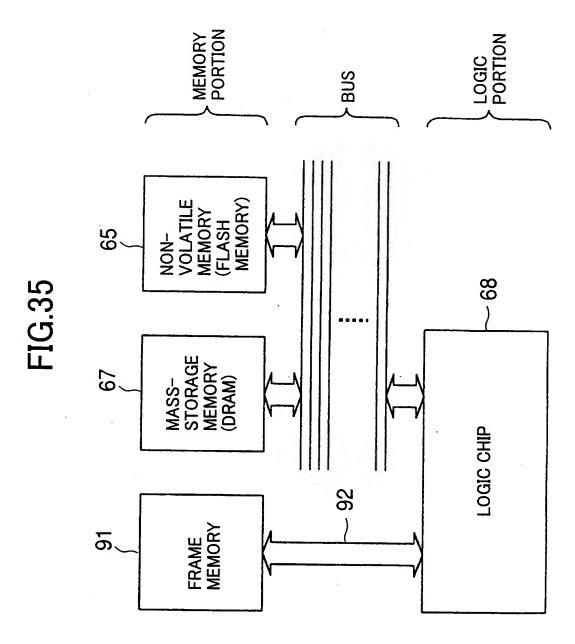


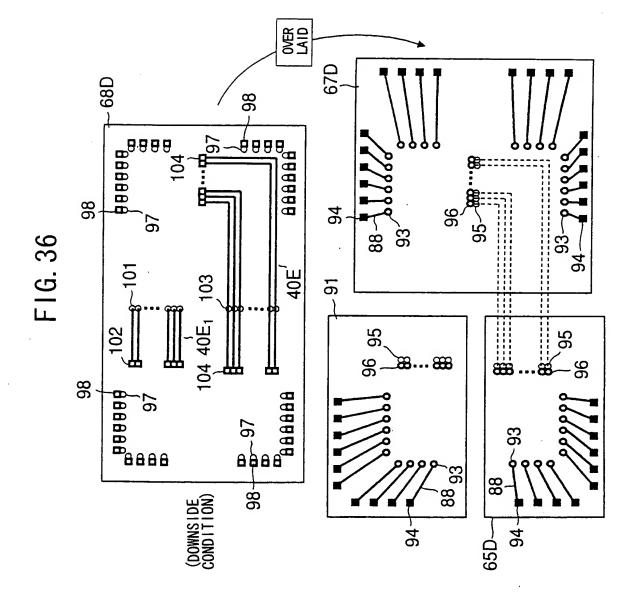
FIG. 34A



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Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181

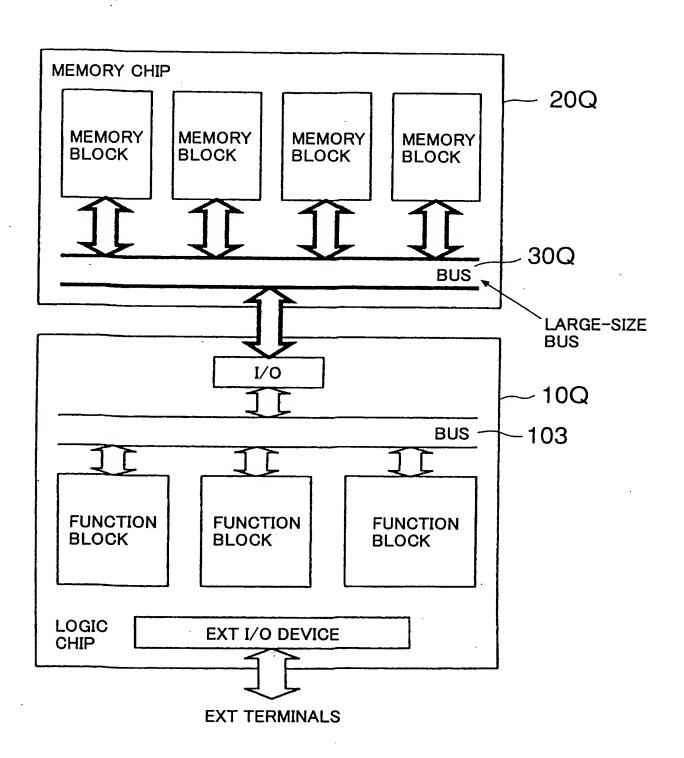


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Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181



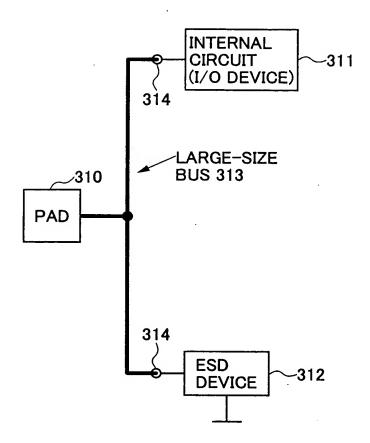
CONNECTION

FIG.37



Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION Inventor: Yasurou MATSUZAKI

FIG.38

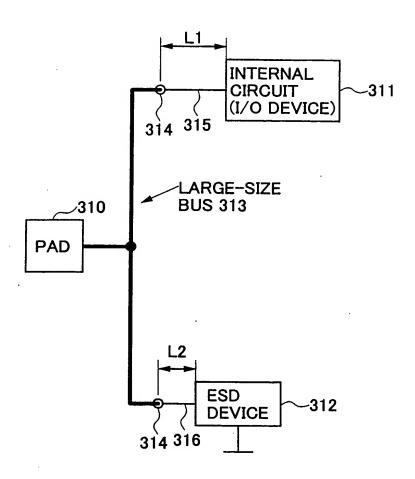


Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181

SEMICONDUCTOR

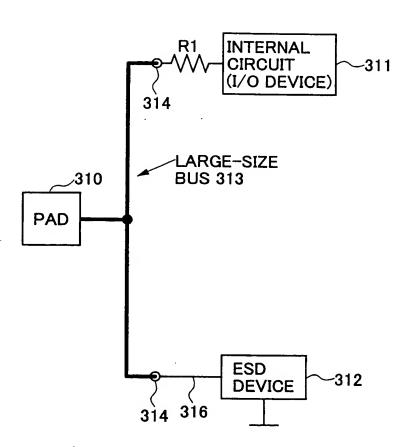
 \sim 321

FIG.40



CONNECTION

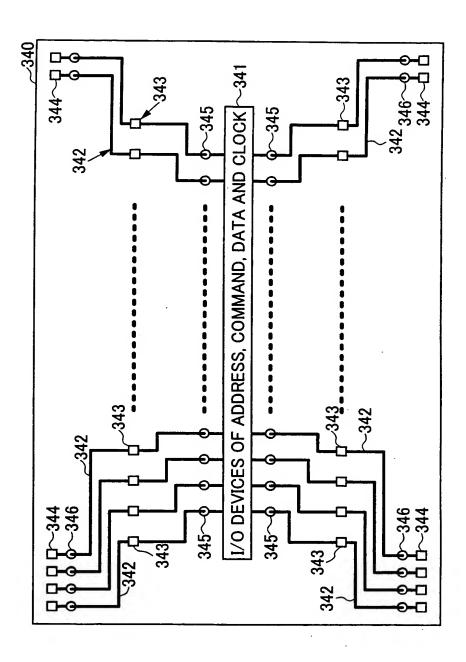
FIG.41



Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION Inventor: Yasurou MATSUZAKI

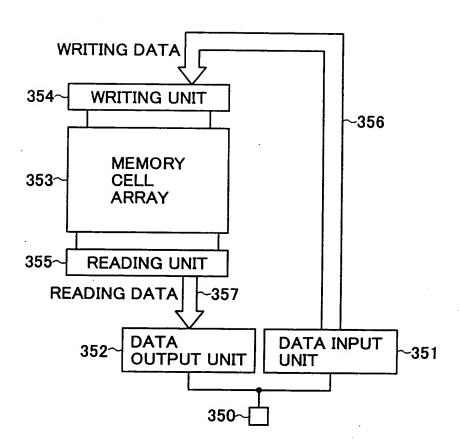
Appln. No.: New Application Docket No.: 100353-00181





CONNECTION

FIG.43



CONNECTION

FIG.44A

FIG.44B

